National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING & CALIBRATION LABORATORY, NARAYAN POWERTECH PVT. LTD., PADRA-VADODARA ROAD, PADRA, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5681 **Page No** 1 of 14

Validity 31/07/2022 to 30/07/2024 **Last Amended on** 23/11/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
LOCATION 1-PADRA-VADODARA ROAD, PADRA, VADODARA, GUJARAT, INDIA Permanent Facility				
1	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Temperature Cycle Test	IEC 60068 (Part 2-30)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	AS 60044.1 (Part-1) Cl:8.1, 10.1
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	IEC 61869 (Part-1) Cl:7.3.6
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	IEEE C57.13, Cl:8.3, 9.4.1
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	IS 2705 (Part-1) Cl:9.2, 8.2
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Exciting Current Test	AS 60044.1, (Part-1) Cl:14.4.3
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	AS 60044.1 (Part 1) CL:8.2.2
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	IEEE C57.13, Cl:8.6, 8.6.1
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	IS 11322
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Rise Test	IS 2705, (Part -1) Cl:9.7
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Turns Ratio Error Test	AS 60044.1, (Part-1) Cl:14.4.3
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Turns Ratio Error Test	IEC 61869, (Part-2) Cl:7.3.5.204
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Verification of Terminal Markings and Polarity	IS16227 (Part-1)Cl:7.3.6
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Composite Error Test	IS 16227 (Part-2) Cl:7.3.5.202
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Exciting Current Test	IS 16227 (Part-2) Cl:7.3.203
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	knee point voltage test	IS 16227 (Part-2) Cl:7.3.203
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000A, Upto 200 VA.	Instrument Security Factor	IS 16227 (Part 2) 7.5.2
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA	Power frequency dry withstand tests on secondary windings	IS 16227, (Part-1 & 2) Cl:7.3.4 & 5.3.5

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Certificate Number	TC-5681	**Page No**	2 of 14
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19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors/ Accuracy test	IS 16227, (Part-1 & Part-2), Cl:7.2.6, 7.3.5
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA	Determination of Errors / Accuracy test	AS 60044-1, (Part-1) CL:11.5,11.4, 11.2, 12.4,12.3, 13.4, 13.3.1, 14.4.3
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Accuracy Test using Omicron instrument	IEC 61869 (Part 1&2)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Accuracy Test using Omicron instrument	IEC 61869 (Part-1&2)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Composite Error Test	AS 60044.1, (Part-1) Cl:12.6
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Composite Error Test	IEC 61869, (Part-2 & Part-3) Cl:7.1.2.2, Cl:7.2.2.2;, 7.2.6.202 (b)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	IEEE C57.13, Cl:6.11, 5.3, 5.4, 6.3
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	"Withdrawn" IS 2705, Cl:7.1.1, 7.2.1 (Part-2 & Part3)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	"Withdrawn" IS 2705, Cl:7.1.1, 7.2.1 (Part-2 & Part3)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	AS 60044-1, (Part-1) CL:11.5,11.4, 11.2, 12.4,12.3, 13.4, 13.3.1, 14.4.3
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	IEC 61869 (Part-1 & Part-2) Cl:7.2.6, 7.3.5
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	IEC 61869 (Part-1 & Part-2) Cl:7.2.6, 7.3.5
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	IEEE C57.13, Cl:6.11, 5.3, 5.4, 6.3
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	IS 16227, (Part-1 &Part-2) Cl:7.2.6, 7.3.5
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Exciting Current Test	"Withdrawn" IS 2705 Cl: 6.1 Part-4
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Exciting Current Test	IEC 61869, (Part-2) Cl:7.3.5.205.1
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Instrument Security Factor	AS 60044.1 (Part-1) Cl:11.6
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Instrument Security Factor	"Withdrawn" IS 2705 Cl: 7.1.2 Part-2

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37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Instrument Security Factor	IEC 61689, (Part-1 & Part-2) Cl:7.3.5.201
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	knee point voltage test	IEC 61869, (Part-2) Cl:7.3.5.205.1
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	knee point voltage test	AS 60044.1, (Part-1) Cl:14.4.1
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Knee Point Voltage Test	'Withdrawn" IS 2705 Cl : 6.1 Part 4
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Lightning Impulse Test	AS 60044.1, (Part-1) Cl:7.3.1, 7.3.2, 7.3.2.1
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Lightning Impulse Test	IEC 61869-1, (Part-1) CL:7.2.3.1, 7.2.3.2.1
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Lightning Impulse Test	IEEE C57.13, Cl:11.3
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Lightning Impulse Test	IS 16227 (Part-1) Cl:7.2.3, 7.2.3.1, 7.2.3.2,7.2.3.2.1
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Lightning Impulse Test	IS 2705, (Part-1) Cl:9.8.1 & 9.8.2
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter turn Test /Inter-turn over voltage test	AS 60044.1, (Part-1) Cl:8.4, 14.4.5
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter turn Test /Inter-turn over voltage test	IEC 61869 (Part-2) Cl:7.3.200
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter turn Test /Inter-turn over voltage test	IEEE C57.13, Cl:6.7.1, 6.7.2, 12.3
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter turn Test /Inter-turn over voltage test	IS 2705 (Part-1) Cl:9.5, 9.5.2
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Partial Discharge Test	IEC 61869 (Part-1) Cl:7.3.2
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Partial Discharge Test	IEC 61869-10, Cl : 7.3.2
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Partial Discharge Test	IS 16227 (Part-1), Cl:7.3.2, 7.3.2.1,7.3.2.2
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	AS 60044.1 (Part-1) Cl:8.2.1
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	IEC 61869, (Part-1) Cl:7.3.1
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	IEEE C57.13, Cl:4.5

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56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	IS 2705, (Part-1) Cl:9.3, 9.3.1, 9.3.3
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on secondary windings	AS 60044.1 (Part-1) Cl:8.3, 5.3.1, 5.1.4
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on secondary windings	IEC 61869 (Part-1) Cl:7.3.4 & 5.3.5
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on secondary windings	IEEE C57.13, Cl:4.5 d), 4.5 e) & 8.5.3
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on secondary windings	IS 2705 (Part-1) Cl:9.4
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Secondary Winding Resistance	"Withdrawn" IS 2705 Cl: 6.2 Part-4
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Secondary Winding Resistance	AS 60044.1, (Part-1) Cl:14.4.2
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Secondary Winding Resistance	IEC 61869 (Part-2) Cl:7.3.5.204.3
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Secondary Winding Resistance	IS 16227 (Part-2) Cl:7.3.201
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Temperature Rise Test	AS 60044.1 (Part-1) Cl:11.2 & 12.2 IEEE C57.13
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Temperature Rise Test	AS 60044.1 (Part-1) Cl:7.2 & 6.4
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Temperature Rise Test	IEC 61869 (Part-1 Cl:7.2.2, 6.4
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Temperature Rise Test	IS 16227 (Part-1), Cl:7.2.2, 6.4
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Turns Ratio Error Test	"Withdrawn" IS 2705 Cl: 6.3 Part-4
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Turns Ratio Error Test	IS 16227 (Part-2) Cl:7.3.5.206
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Power frequency dry withstand tests on secondary windings	IEC 61869-10, Cl : 7.3.4
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Determination of Errors / Accuracy test	IEC 61869-10, Cl : 7.3.5
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Determination of Errors / Accuracy test	IEC 61869-10, Cl 7.3.5
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Lightning Impulse Test	IEC 61869-10, Cl: 7.2.3

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75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Power frequency dry withstand tests on primary windings	IEC 61869-10, Cl : 7.3.1
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Secondary Winding Resistance	IEC 61869-10, Cl : 7.3.1102
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Cycling Test	IEC 61869-10 Cl : 7.2.6
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Rise Test	IEC 61869-10, Cl : 7.2.2
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Verification of Terminal Markings and Polarity	IEC 61869-10 Cl : 6.13
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Verification of Terminal Markings and Polarity	IEC 61869-10 Cl : 7.3.6
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A,Up to 200 VA.	Over-Voltage Inter turn Test / Inter-turn over voltage test	IS 16227 Part-2 Cl:7.3.204
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers,LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA	Power frequency dry withstand tests on primary windings	IS 16227, (Part-1) Cl:7.3.1
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers,LT (415 V) to 33 kV,1.1 kV To 33 kV	Temperature Cycling Test	IEC 60068 (Part 2-30)
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors /Accuracy test	IEC 61869 (Part-3) Cl:7.3.5.301, 7.2.6.301, 7.3.5.302, 7.2.6.302
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	AS 60044.2 (Part-2) Cl:9.2.1 to 9.2.2.2
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	IEC 61869 (Part-3) Cl:7.3.1.303.1
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Lightning Impulse Test	AS 60044.1 (Part-1) Cl:7.3.1, 7.3.2, 7.3.2.1
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Lightning Impulse Test	IEC 61869-1 (Part-1) CL:7.2.3.1, 7.2.3.2.1
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Lightning Impulse Test	IEEE C57.13, Cl:11.3
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	AS 60044.2 (Part-2) Cl:9.2.4
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	IEC 61869 (Part-3) Cl: 7.3.2.1, 7.3.2.2
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	IEEE C57.13, Cl:8.6R & 11.4 T

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93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	IS 11322
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	AS 60044.2 (Part-2) Cl:9.3
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	IEC 61869 (Part-3) Cl: 7.3.3
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	AS 60044.2, (Part-2) Cl:9.2.1 to 9.2.2.2
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	IEC 61869 (Part-3) Cl:7.3.1
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	IEEE C57.13, Cl: 4.5 & 8.5.3
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	AS 60044.2 (Part-2) Cl:9.3
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	IEC 61869 (Part-3) Cl: 7.3.4
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	IEEE C57.13, Cl: 4.5 d) & e) & 8.5.3
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	AS 60044.2 (Part-2) Cl:8.1
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	IEC 61869-3, (Part-3) Cl: 7.2.2
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	IEEE C57.13, Cl:11.2 & 13.2
105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	AS 60044.2 (Part-2) Cl:9.1, 11.2
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	IEC 61869 (Part-3) Cl: 7.3.6
107	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	IEEE C57.13, Cl: 8.3 & 10.3
108	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	IEEE C57.13, Cl:7.9 and 8.5.4
109	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	IS 16227 (Part-3) Cl:7.3.1.303, 7.3.1.303.1
110	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Lightning Impulse Test	IS 16227 (Part-1) Cl:7.2.3, 7.2.3.1, 7.2.3.2,7.2.3.2.1, 7.2.3.3,7.2.3.3.1

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111	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	IS 16227 (Part-1 & Part-3) Cl:7.3.2, 7.3.2.1, 7.3.2.2,7.3.2.2 : 2016 & 2015
112	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	IS 16227 (Part-1) Cl:7.3.3
113	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	IS 16227 (Part-1) Cl:7.3.1
114	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	IS 16227 (Part-1) Cl:7.3.4
115	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IS 16227 (Part-3) Cl:7.3.5.301,7.3.5.302,7.2.6.301, 7.2.6.302
116	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	AS 60044.2 (Part 2) Cl:12.4 & 13.7
117	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	AS 60044.2 (Part-2) Cl:12.4 & 13.7
118	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IEC 61869 (Part-3) Cl:7.3.5.301, 7.2.6.301, 7.3.5.302, 7.2.6.302
119	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IEEE C57.13, Cl:7.10, 8.1 and 10.1
120	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IEEE C57.13, Cl:7.10, 8.1 and 10.1
121	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	"Withdrawn" IS 3156 Cl: 8.1, 8.2.1 Cl:10.1.1.2, 10.1.2.1, 10.2.1.1, 10.2.2.1 Part 2 & Part 3
122	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	"Withdrawn" IS 3156 Cl: 8.1, 8.2.1 Cl:10.1.1.2, 10.1.2.1, 10.2.1.1, 10.2.2.1 Part 2 & Part 3
123	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IS 16227 (Part-3) Cl:7.3.5.301,7.3.5.302, 7.2.6.301, 7.2.6.302
124	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	"Withdrawn" IS 3156 Cl: 9.3.1.2, 9.3.2.2 Part -2
125	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Lightning Impulse Test	'Withdrawn" IS 3156 (Part-1) Cl:9.6 & 9.6.2
126	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	"Withdrawn" IS 3156 Cl: 9.4.1 Part-1

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127	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	"Withdrawn" IS 3156 Cl: : 9.3, 9.3.1.1, 9.3.2.1 Part-1
128	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	"Withdrawn" IS 3156 9.4, 9.4.1 Part-1
129	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	IS 16227 (Part-1 & Part-3) Cl:7.2.2
130	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	'Withdrawn" IS 3156 Cl: 9.5, Part-1
131	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	"Withdrawn" IS 3156 Cl: 9.2, Part-1
132	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	IS 16227 (Part-1 & Part-3) Cl:7.3.6
133	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IEC 61869-11, Cl : 7.3.5
134	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IEC 61869-11, Cl : 7.3.5
135	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Lightning Impulse Test	IEC 61869-11, Cl : 7.2.3
136	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	IEC 61869-11, Cl : 7.3.1
137	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	IEC 61869-11, Cl : 7.3.4
138	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Secondary Winding Resistance	IEC 61869-11, Cl : 7.3.1102
139	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	IEC 61869-11, Cl : 7.2.2
140	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	IEC 61869-11, Cl : 7.3.6
141	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV Voltage	Partial Discharge Test	IEC 61869-11, Cl : 7.3.2
142	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV Voltage	Verification of Terminal Markings and Polarity	IEC 61869-11, Cl : 6.13
143	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers,LT (415 V) to 33 kV,1.1 kV To 33 kV	Temperature Cycling Test	IEC 61869-11, 7.2.6

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LOCATION 2 - SURVEY NO.191, VILLAGE : LUNA, PADRA, VADODARA, GUJARAT, INDIA Permanent Facility				
1	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter Turn Test /Inter-Turn Over Voltage Test	AS 60044.1 (Part-1) Cl:8.4, 14.4.5
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	AS 60044.1 (Part-1) Cl:8.2.1
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	IEC 61869 (Part-1) Cl:7.3.1
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter Turn Test /Inter-Turn Over Voltage Test	IEC 61869 (Part-2) Cl:7.3.200
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter Turn Test /Inter-Turn Over Voltage Test	IEEE C57.13, Cl:6.7.1, 6.7.2, 12.3
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter Turn Test /Inter-Turn Over Voltage Test	IS 2705 (Part-1) Cl:9.5, 9.5.2
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	IEEE C57.13, Cl:4.5
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	IS 2705 (Part-1) Cl:9.3, 9.3.1, 9.3.3
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	AS 60044.1 (Part-1) Cl:8.1, 10.1
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	IEEE C57.13, Cl:8.3, 9.4.1
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	IS 2705 (Part-1) Cl:9.2, 8.2
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Power frequency dry withstand tests on primary windings	IS 16227, (Part-1) Cl:7.3.1
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	IEC 61869, (Part-1) Cl:7.3.6
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Verification of Terminal Markings and Polarity	IS 16227 (Part-1)Cl:7.3.6
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Composite Error Test	AS 60044.1 (Part-1) Cl:12.6
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Composite Error Test	IEC 61869 (Part-3 & Part-2) Cl:7.1.2.2, Cl:7.2.2.2;, 7.2.6.202 (b)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Exciting Current Test	AS 60044.1 (Part-1) Cl:14.4.3

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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Exciting Current Test	IEC 61869 (Part-2) Cl:7.3.5.205.1
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	knee point voltage test	AS 60044.1 (Part-1) Cl:14.4.1
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	knee point voltage test	IEC 61869 (Part-2) Cl:7.3.5.205.1
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	AS 60044.1 (Part-1) CL:8.2.2
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	IEC 61869 (Part-1) Cl:7.3.2
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	IEEE C57.13, Cl:8.6, 8.6.1
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	IS 11322
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Power frequency dry withstand tests on secondary windings	AS 60044.1 (Part-1) Cl:8.3, 5.3.1, 5.1.4
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Power frequency dry withstand tests on secondary windings	IEC 61869 (Part-1) Cl:7.3.4 & 5.3.5
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Power frequency dry withstand tests on secondary windings	IEEE C57.13, Cl:4.5 d), 4.5 e) & 8.5.3
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Power frequency dry withstand tests on secondary windings	IS 2705 (Part-1) Cl:9.4
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Secondary Winding Resistance	AS 60044.1 (Part-1) Cl:14.4.2
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Secondary Winding Resistance	IEC 61869 (Part-2) Cl:7.3.5.204.3
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Rise Test	AS 60044.1 (Part-1) Cl:7.2 & 6.4
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Rise Test	IEC 61869 (Part-1) Cl:7.2.2, 6.4
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Rise Test	IEEE C57.13, Cl:11.2 & 12.2
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Rise Test	IS 2705 (Part -1) Cl:9.7
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Turns Ratio Error Test	AS 60044.1 (Part-1) Cl:14.4.3
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Turns Ratio Error Test	IEC 61869 (Part-2) Cl:7.3.5.204

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37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Partial Discharge Test	IS 16227 (Part-1) Cl:7.3.2
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Power frequency dry withstand tests on secondary windings	IS 16227 (Part-1), Cl:7.3.4 & 5.3.5
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Temperature Rise Test	IS 16227 (Part-1), Cl:7.2.2, 6.4
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000A, Upto 200 VA.	Instrument Security Factor	AS 60044.1 (Part-1) Cl:11.6
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000A, Upto 200 VA.	Instrument Security Factor	IEC 61689 (Part-1 & Part-2) Cl:7.3.5.201
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy Test	AS 60044.1 (Part-1) CL:11.5,11.4, 11.2, 12.4,12.3, 13.4, 13.3.1, 14.4.3
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy Test	IEC 61869 (Part-1 & Part-2) Cl:7.2.6, 7.3.5
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	IS 16227, (Part-1 & Part-2) Cl:7.2.6, 7.3.5
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	IS 16227, (Part-1 &Part-2)Cl:7.2.6, 7.3.5
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Over-Voltage Inter Turn Test /Inter-Turn Over Voltage Test	IS 16227, (Part-2) Cl:7.3.204
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA	Secondary Winding Resistance	IS 16227 (Part-2) Cl:7.3.201
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Composite Error Test	IS 16227 (Part-2) Cl:7.3.5.202
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Exciting Current Test	IS 16227 (Part-2) Cl:7.3.203
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	knee point voltage test	IS 16227 (Part-2) Cl:7.3.203
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Upto 200 VA.	Turns Ratio Error Test	IS 16227 (Part-2) Cl:7.3.5.204
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000A, Upto 200 VA.	Instrument Security Factor	IS 16227(Part 1 & Part 2) 7.3.5
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	"Withdrawn" IS 2705, Cl:7.1.1, 7.2.1 (Part- 2 & Part 3)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy test	"Withdrawn" IS 2705, Cl:7.1.1, 7.2.1 (Part-2 & Part 3)

SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy Test	AS 60044.1 (Part-1) CL:11.5,11.4, 11.2, 12.4,12.3, 13.4, 13.3.1, 14.4.3
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy Test	IEC 61869 (Part-1 & Part-2) Cl:7.2.6, 7.3.5
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy Test	IEEE C57.13, Cl:6.11, 5.3, 5.4, 6.3
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Determination of Errors / Accuracy Test	IEEE C57.13, Cl:6.11, 5.3, 5.4, 6.3
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Exciting Current Test	"Withdrawn" IS 2705 Cl: 6.1 Part-4
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Instrument Security Factor	"Withdrawn" IS 2705 Cl: 7.1.2 Part-2
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Knee Point Voltage Test	'Withdrawn" IS 2705 Cl : 6.1, Part-4
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Secondary Winding Resistance	"Withdrawn" IS 2705 Cl: 6.2 Part -4
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers, LT (415 V) to 33 kV, 1 Ampere to 25000 A, Up to 200 VA.	Turns Ratio Error Test	"Withdrawn" IS 2705 Cl:6.3 Part-4
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	AS 60044.2 (Part-2) Cl:9.2.1 to 9.2.2.2
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	IEC 61869 (Part-3) Cl:7.3.1.303.1
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	IEEE C57.13: Cl:7.9 and 8.5.4
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	AS 60044.2 (Part-2) Cl:9.2.4
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	IEC 61869 (Part-3) Cl: 7.3.2.1, 7.3.2.2
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	IS 11322
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	AS 60044.2 (Part-2) Cl:9.3
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	IEC 61869 (Part-3) Cl: 7.3.3
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	AS 60044.2 (Part-2) Cl:9.2.1 to 9.2.2.2

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	IEC 61869 (Part-3) Cl:7.3.1
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	IEEE C57.13, Cl: 4.5 & 8.5.3
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	IEEE C57.13, Cl: 4.5 d) & e) & 8.5.3
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	AS 60044.2 (Part-2)Cl:9.3
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	IEC 61869 (Part-3) Cl: 7.3.4
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	IEC 61869-3 (Part-3) Cl: 7.2.2
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	AS 60044.2 (Part-2)Cl:8.1
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	IEEE C57.13, Cl:11.2 & 13.2
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	AS 60044.2 (Part-2) Cl:9.1, 11.2
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	IEC 61869 (Part-3) Cl: 7.3.6
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	IEEE C57.13, Cl: 8.3 & 10.3
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	IS 16227 (Part-3) Cl:7.3.1.303.1
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge Test	IEEE C57.13, Cl:8.6 & 11.4
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Partial Discharge test	IS 16227 (:Part-3) Cl:7.3.2, 7.3.2.1, 7.3.2.2
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	IS 16227 (Part-3) Cl:7.3.3
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	IS 16227 (Part-3) Cl:7.3.1
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	IS 16227 (Part-3) Cl:7.3.4
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	IS 16227 (Part-3) Cl:7.2.2
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	IS 16227 (Part-3) Cl:7.3.6

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92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy Test	IEC 61869 (Part-3) Cl:7.3.5.301, 7.2.6.301, 7.3.5.302, 7.2.6.302
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy Test	AS 60044.2 (Part-2) Cl:12.4 & 13.7
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy Test	AS 60044.2 (Part-2) Cl:12.4 & 13.7
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy Test	IEC 61869 (Part-3) Cl:7.3.5.301, 7.2.6.301, 7.3.5.302, 7.2.6.302
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy Test	IEEE C57.13, Cl:7.10, 8.1 and 10.1
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy Test	IEEE C57.13, Cl:7.10, 8.1 and 10.1
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	"Withdrawn" IS 3156 Cl: 8.1, 8.2.1 Cl:10.1.1.2, 10.1.2.1, 10.2.1.1, 10.2.2.1 Part 2 & Part 3
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	"Withdrawn" IS 3156 Cl: 8.1, 8.2.1 Cl:10.1.1.2, 10.1.2.1, 10.2.1.1, 10.2.2.1 Part 2 & Part 3
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IS 16227 (Part-3) Cl:7.3.5.301,7.2.6.301,7.3.5.302, 7.2.6.302
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Determination of Errors / Accuracy test	IS 16227 (Part-3) Cl:7.3.5.301,7.2.6.301,7.3.5.302, 7.2.6.302
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Induced over voltage withstand Test	"Withdrawn" IS 3156 Cl:9.3.1.2, 9.3.2.2 Part-1
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests between Sections	'Withdrawn" IS 3156 Cl: 9.4.1 Part-1
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on primary windings	"Withdrawn" IS 3156 Cl: 9.3, 9.3.1.1, 9.3.2.1
105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Power frequency dry withstand tests on secondary windings	"Withdrawn" IS 3156 Cl: 9.4, 9.4.1 Part- 1
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Temperature Rise Test	"Withdrawn" IS 3156 Cl: 9.5 Part-1
107	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers, LT (415 V) to 33 kV, 1.1 kV To 33 kV	Verification of Terminal Markings and Polarity	"Withdrawn" IS 3156 Cl: 9.2, Part-1